

Monthly Report
PILOT STUDY
AERIAL RADIOLOGICAL SURVEY
POLK AND HILLSBOROUGH COUNTY, FLORIDA
May 4, 2004

Objective:

The purpose of this Statement of Work (SOW) is to outline the approach for a "Pilot Study." The study will aid in the development of a process and criteria, with which to assess the potential for human exposure to excess levels of radiation [and radon gas] to individuals residing in dwellings constructed over formerly mined phosphate lands in Central Florida. Background information used to develop this SOW is summarized in the *"Draft, Florida Phosphate Initiative, Summary of Information, U.S. Environmental Protection Agency, Region 4, Waste Management Division, South Site Management Branch, September 2003"*.

The SOW provides direction to the U.S. Department of Energy (DOE), National Nuclear Security Administration, Nevada Site Office (NNSA/NSO) to provide technical support to the U.S. Environmental Protection Agency (EPA) via an Interagency Agreement (IAG). The goal of this project is to document the terrestrial radiological conditions and map the spatial extent and degree of elevated radiation due to phosphate mining operations in Central Florida. Please refer to section 3.0 titled 'Scope of Work' in the Statement of Works for Phase I and for Phases II and III.

Progress for Period of Performance: 04/01/04 – 04/30/04

Phase 1: Planning

Highlights of activities:

- Submitted final aerial survey work plan to EPA Region IV
- Met with EPA and Florida Department of Health (DOH) in Polk County to review historical radiological survey files covering residential communities and selected business properties.
- Initiated detailed evaluation and summary of DOH historical radiological surveys to assess potential impact on planned aerial survey.
- Initiated preliminary planning for community involvement website development and implementation.
- Provided poster display graphics related to aerial survey methods for community involvement meetings.



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- Continued preparation of aerial survey GIS product integration feasibility study:

May Work Scope:

- N/A. Phase I is complete.

Phase 2: Data Acquisition

Highlights of activities:

- Initiated the logistics for the May deployment (hotel, airport hangar and work space, equipment shipments, source shipments, etc.).
- Checked out and prepared for shipment of RSL-Nellis support and backup equipment to RSL-Andrews.
- Prepared plan and certifying training program for the installation and checkout the detector system's analog front end unit on the RSL-Andrews Bell 412 helicopter.
- On April 21, Brad Jackson, EPA Project Manager, placed the Pilot Study Survey on hold. A new survey start date has been tentatively scheduled for October 2004. All purchase requisitions and logistics arrangements have been suspended.
- During the interim, Brad Jackson has requested that BN and Argonne National Laboratory (ANL) personnel use current funding to prepare an amended scope of work and request for additional funds to review the volume and quality of some ground-based radiation measurements and soil sampling collected by the Florida Department of Health during the 1970-1990s and come up with a strategy to best summarize those results.
- Researched additional historical or archived radiological datasets for Polk and Hillsborough Counties in Florida.

May Work Scope:

- Will complete report summarizing findings and recommendations from DOH historical radiological surveys.
- Will participate in meetings with EPA in Atlanta to review findings and recommendations from DOH surveys, continue planning for aerial survey pilot study, coordinate aerial survey GIS product development, and conduct community involvement website design sessions.
- Will continue development of community involvement website.

- Will continue preparation of aerial survey GIS product integration feasibility study.

Phase 3: Reporting of Survey Results

N/A

Revised Schedule:

This preliminary schedule assumes the field work will not begin until the start of FY05. It is based on the currently expected number of report review cycles and editing requirements. All work for others is accomplished on a non-interference basis with the primary NNSA mission. Project and task schedules may be adjusted as a result.

Preliminary pilot study results and products will be delivered as they become available. The final pilot study report and GIS products will be delivered on March 15, 2005.

March 8, 2004	Funds Received at NNSA/NSO
March 19, 2004	Working draft of work plan to EPA
March 22, 2004	Pre-survey planning and logistics Travel to FLA
March 26, 2004	Travel team returns to point of origin
April 1, 2004	EPA comments on working draft back to RSL
April 12, 2004	Final draft of Work Plan to EPA
September 20, 2004	RSL deploys survey team to RSL Andrews for equipment check
October 4, 2004	RSL deploys survey team to FLA
October 6, 2004	Survey Flights begin
November 1, 2004	Survey Flights complete
January 15, 2005	RSL analysis complete, deliver GIS products to ANL and EPA
February 15, 2005	ANL completes draft of report and deliverables
February 30, 2005	Review cycle of draft deliverables complete
March 15, 2005	ANL provides final draft of report and deliverables

Table 1. This is a preliminary critical path schedule. A delay in any date above will result in a delay of equal interval in all of the dates that follow it.

Anticipated and Encountered Problem Areas:

N/A

Variance:

None.

Financial Schedule Status:

NNSA has received \$750,000.

\$159,470 of costs has been incurred as of 4/25/04.